BLACK BOX®
since 1976

QuietCab™ and Elite™ QuietCab Acoustic IT Enclosures

Reduce noise and increase productivity.

» Ideal for environments where you need to store network equipment near workers, such as offices, schools, medical practices, retail establishments, and more.

QuietCab™

BLACK BOX IT ENCLOSURES

724-746-5500 | blackbox.com/go/QuietCab

Why is noise control so important?

Increased productivity. Increased profits. Research shows that prolonged exposure to noise creates stress and lowers morale. It can also lead to an increase in accidents and errors. A simple 5-dB reduction in noise can actually cut the risk of hearing loss in half. A quiet office is a productive office. The Black Box® Elite™ QuietCab™ reduces sound by an amazing 27–28.5 dB—the most you can get today in a soundproof enclosure. And, the cabinet goes through independent, third-party testing to ensure it. The QuietCab reduces audible server and hardware noise by 15 dB and, with its attractive appearance, it can be placed nearly anywhere.

So what does that mean?

Noise is measured in decibels. So a 27–28.5-dB noise attenuation (or reduction) means that the cabinet is removing that amount of noise from the sound source.

The noise level in a busy office with people talking measures 78 dB. Normal conversation is about 60 dB. A quiet office with no talking is 48 dB. A whisper is 23 dB. If you put the cabinet in a busy office, you'll reduce the sound to that of an office without speech. If you start with a quiet office, the sound from the cabinet would be as quiet as a whisper.

The cabinet design ensures noise reduction without compromising cooling capacity. To reduce sound, the inside of the Elite QuietCab model is heavily lined with one of the most effective acoustic materials available. This heavy-duty, multilayer composite material covers all inside surfaces. Even the six cable routing panels on top and bottom (three each) are covered. QuietCab models have full acoustic foam lining as well.

Very cool.

Elite QuietCab cabinets have an incredible thermal load capacity of up to 7.2 kW, while QuietCab cabinets offer up to 3.6 kW. To cool equipment, Elite cabinets feature two variable-speed fans on the rear doors that are controlled by a temperature sensor to ensure maximum energy efficiency. QuietCab cabinets have one, two, or three fan panels.

QuietCab:

- Put networking equipment where you need it—without the noise, space, or cost concerns.
- Acoustic foam lining reduces audible server and hardware noise by 15 dB to normal office background levels.
- Integrated ventilation fans keep equipment cool.
- Cabinets look like furniture, and are available in beech, walnut, and light gray veneers in three sizes.
- Ideal for environments where you need to store network equipment near workers, such as offices, schools, medical offices, retail establishments, and more.
- Includes heavy-duty casters and a pre-installed power strip.
- 19" M6 rails are adjustable.
- Generous cable management space is built in.
- Accommodates all leading servers, including blade servers.
- Top of cabinet can be used as a work space.
- Fully assembled—just plug it in!

QuietCabs are available in beech, walnut, or light gray veneers.

Left: QC24ULG, Middle: QC24UWA, Right: QC24UBE

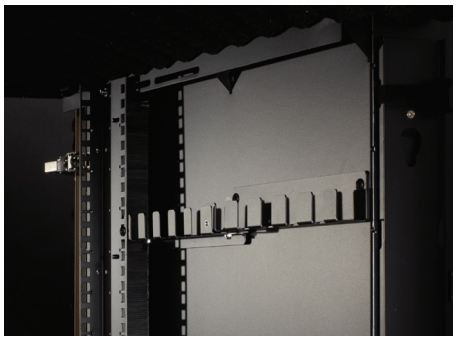
Very accommodating.

This 19" cabinet is extremely well-designed and built to last. The Elite QuietCab can hold a very hefty 1100 pounds of equipment, including all leading servers—even blade servers. To accommodate different types of equipment, the 19" M6 mounting rails are adjustable. Load-bearing casters make it easy to move. Locking front and rear doors secure equipment. The cabinet is also designed with very generous cable management for both horizontal and patch cables.

A good office mate in open environments.

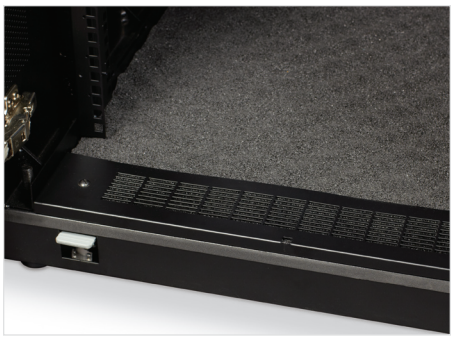
Why spend money on a data center when all you need is the QuietCab? It's a very economical and smart solution for environments where you need to locate equipment near workers, such as open offices, schools, medical practices, etc. By eliminating equipment noise, you'll reduce stress and improve productivity.

Acoustic foam lining reduces noise by 15 dB.



Cable management is built in.

High-quality hinges.

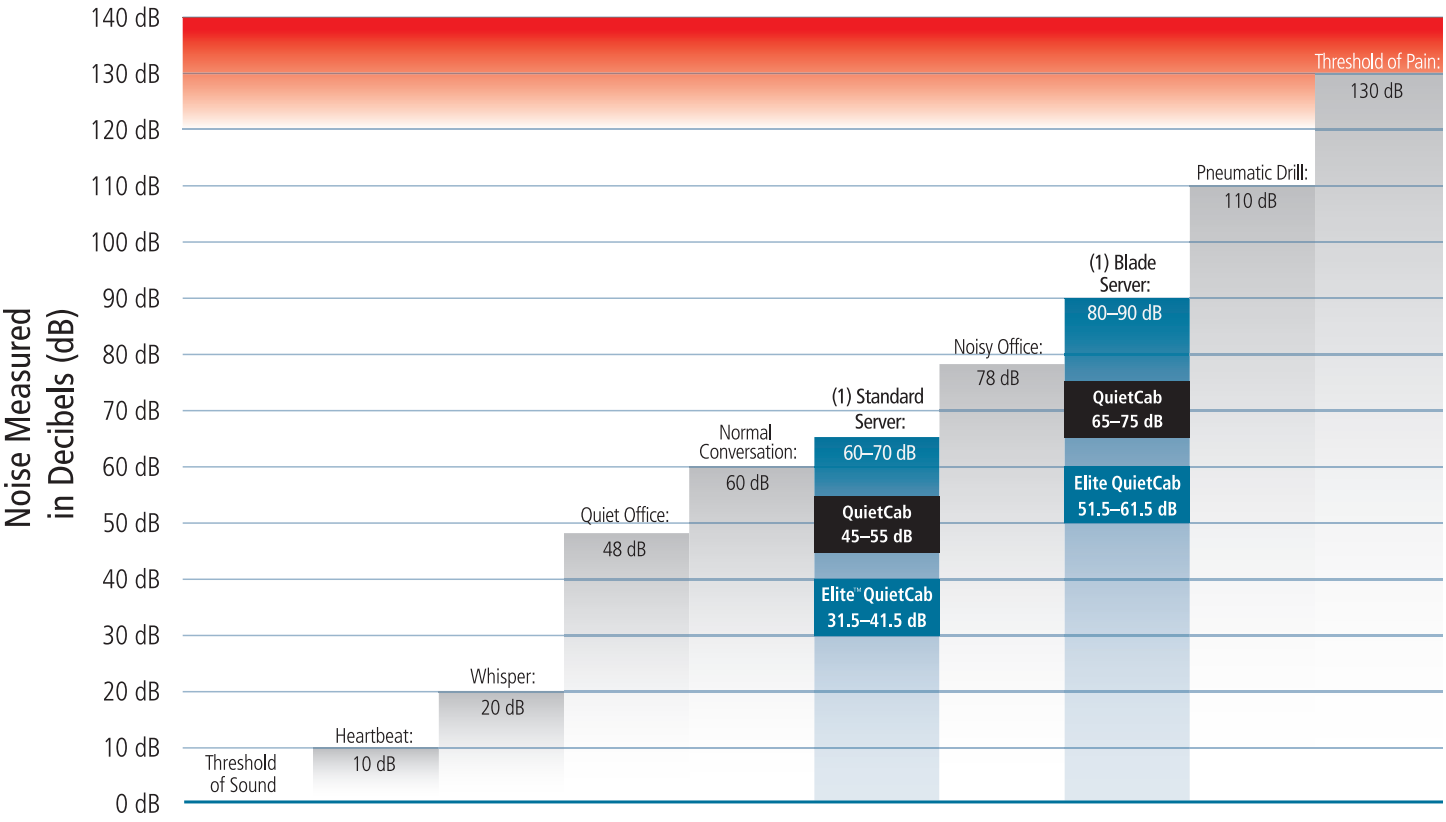


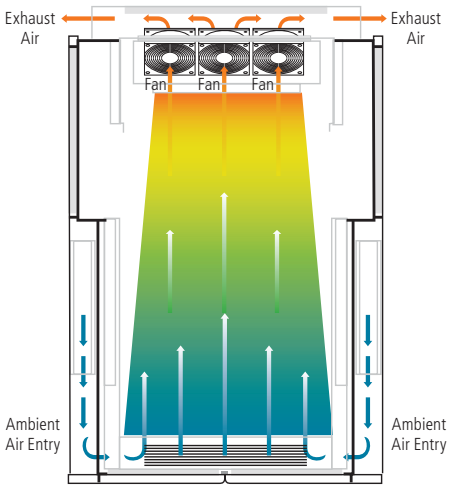
Filtered air vents.

M6 mounting rails are adjustable.

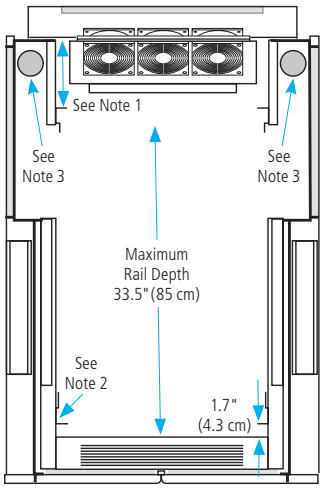
Includes pre-installed power strip.

Noise comparisons on a sliding dB scale:





QuietCab Airflow Characteristics



QuietCab Interior Dimensions

Note 1: *Rear mounting angles can move to the full depth of the cabinet; however, active equipment must not press against the rear face as this will impede the performance of the equipment fans.*

Note 2: *19" mounting angles can be moved the full depth of the cabinet.*

Note 3: *A standard cable entry opening (3" x 3") and acoustic foam block are provided on one side of the cabinet; however, the cabinet has provisions for additional cable entry. For more information, call Tech Support at* **724-746-5500**.

(1) On casters. *(2)* Between 19" mounting angles. *(3)* 0.5 dBA is gained by using blanking panels. *(4)* See thermal guidelines.

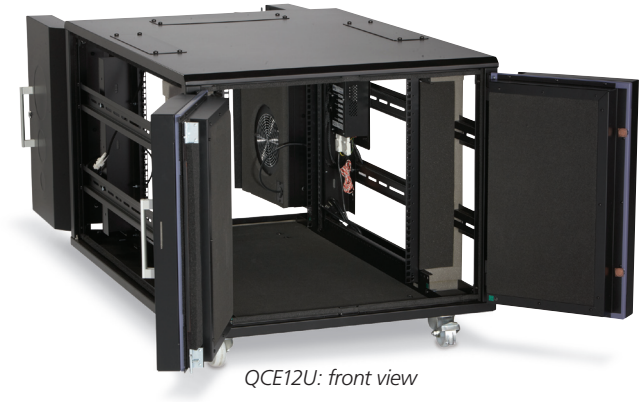
QuietCab | Specifications

	QC12UBE, QC12UWA, QC12ULG	QC24UBE, QC24UWA, QC24ULG	QC42UBE, QC42UWA, QC42ULG
Usable Height	12U	24U	42U
External Cabinet Dimensions (Includes Casters)	27.7"H x 29.5"W x 44.6"D (70.4 x 75 x 113.2 cm)	48.7"H x 29.5"W x 44.6"D (123.8 x 75 x 113.2 cm)	81"H x 29.5"W x 44.6"D (206 x 75 x 113.2 cm)
Maximum Rackmount Unit Depth	36" Measured from inside of front door to inside of rear door	36" Measured from inside of front door to inside of rear door	36" Measured from inside of front door to inside of rear door
Assisted Cooling Mechanism	(1) ultra-quiet rear fan panel	(2) ultra-quiet rear fan panels	(3) ultra-quiet rear fan panels
Assembled Weight without Rackmount Equipment	185.2 lb. (84 kg)	326.3 lb. (148 kg)	509.3 lb. (231 kg)
Maximum Distributed Load (Total Equipment Weight)	1100 lb. (500 kg)	1760 lb. (800 kg)	1760 lb. (800 kg)
Casters	Supplied	Supplied	Supplied
Cable Entry	(2) top 2.4" dia. sliding grommet; (1) bottom 24" x 13.7" with removable panel and brush grommet	(2) top 2.4" dia. sliding grommet; (1) bottom 24" x 13.7" with removable panel and brush grommet	(2) top 2.4" dia. sliding grommet; (1) bottom 24" x 13.7" with removable panel and brush grommet
Cabinet Color	Beech, walnut, or light gray veneer	Beech, walnut, or light gray veneer	Beech, walnut, or light gray veneer
Dust Ingress Protection	Removable and washable filters are standard	Removable and washable filters are standard	Removable and washable filters are standard
External Height[1]	28.2" (71.6 cm)	49.2" (125 cm)	81" (205.7 cm)
Maximum Rail Depth[2]	30.9" (78.5 cm)	30.9" (78.5 cm)	30.9" (78.5 cm)
Attenuation Performance[3]	<15 dB	<15 dB	<15 dB
Maximum Heat Load[4]	1.2 kW	2.4 kW	3.6 kW

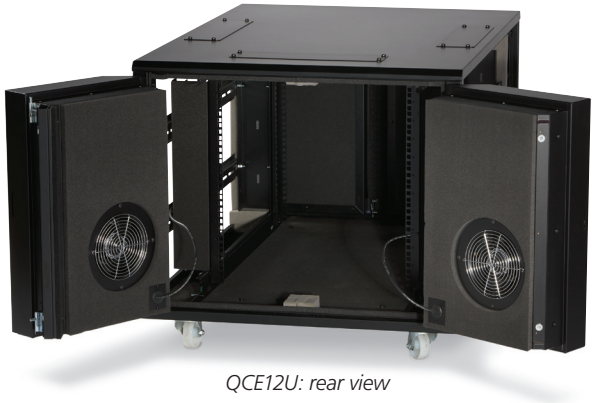
Elite QuietCab:

- Incredibly quiet! Reduces equipment noise to a level below background noise in an average office or even to a whisper.
- Attenuates sound by an amazing 27–28.5 dB—the most you can get today in a soundproof enclosure.
- Innovative airflow design achieves a staggering 7.2-kW heat dissipation.
- Noise reduction is achieved without compromising cooling capability.
- Designed to handle higher heat loads with variable fan speed control and a temperature sensor for maximum energy efficiency.
- 19" M6 rails are adjustable.
- Rear doors feature an exhaust fan.
- Generous cable management space is built in.
- Accommodates all leading servers, including blade servers.
- Lockable front and rear doors keep equipment safe and secure.
- Includes casters.

QCE12U, QCE24U, QCE42U



QCE12U: front view



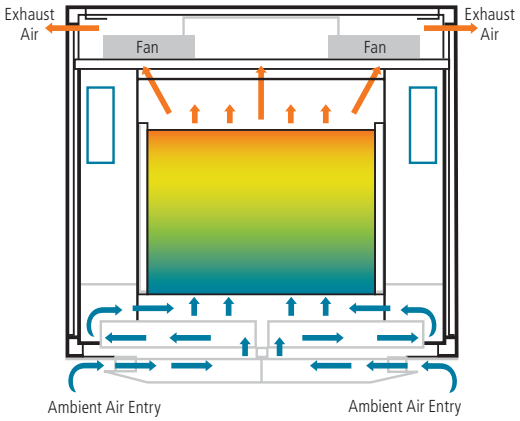
QCE12U: rear view

QCE24U: rear view

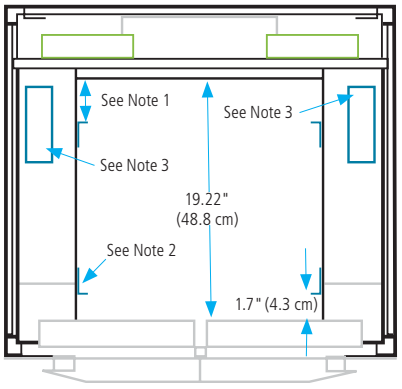
Elite QuietCab | Specifications

	QCE12U	QCE24U	QCE42U
Usable Height	12U	24U	42U
External Cabinet Dimensions (Includes Casters)	28.19"H x 30.71"W x 47.64"D (71.6 x 78 x 121 cm)	49.2"H x 30.7"W x 47.64"D (125 x 78 x 121 cm)	80.7"H x 30.7"W x 47.64"D (205 x 78 x 121 cm)
Maximum Rackmount Unit Depth	33.85" Measured from front blanking plate surface to inside of rear door	33.85" Measured from front blanking plate surface to inside of rear door	33.85" Measured from front blanking plate surface to inside of rear door
Assisted Cooling Mechanism	(3) ultra-quiet rear fans	(3) ultra-quiet rear fans	(3) ultra-quiet rear fans
Assembled Weight without Rackmount Equipment	260 lb. (118 kg)	394.6 lb. (179 kg)	657 lb. (298 kg)
Maximum Distributed Load (Total Equipment Weight)	1102.3 lb. (500 kg)	1102.3 lb. (500 kg)	1102.3 lb. (500 kg)
Casters	Supplied	Supplied	Supplied
Cable Access Dimensions	3" x 3"; (3) top + (3) bottom	3" x 3"; (3) top + (3) bottom	3" x 3"; (3) top + (3) bottom
Cabinet Color	Black with blue trim	Black with blue trim	Black with blue trim
Dust Ingress Protection	Optional removable and washable filter is available	Optional removable and washable filter is available	Optional removable and washable filter is available
External Height[1]	28.2" (71.6 cm)	49.2" (125 cm)	81" (205.7 cm)
Maximum Rail Depth[2]	33.5" (85 cm)	33.5" (85 cm)	33.5" (85 cm)
Power	1 Amp	1 Amp	1 Amp
Attenuation Performance[3]	<28.5 dB	<28.5 dB	<28.5 dB
Maximum Heat Load[4]	7.2 kW	7.2 kW	7.2 kW
Delivery	Delivered fully assembled and ready to go	Delivered fully assembled and ready to go	Delivered fully assembled and ready to go

(1) On casters. *(2)* Between 19" mounting angles. *(3)* 0.5 dBA is gained by using blanking panels. *(4)* See thermal guidelines.



QuietCab Airflow Characteristics



QuietCab Interior Dimensions

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Manufacturing statement:

Manufactured in accordance with IEC 297 3 and EIA STD 310 for panels and racks for housing electronic equipment. Flammability: Acoustic Foam FMVSS 302-Pass. Ul94: V0, HF1 ISO 9001 Accreditation.

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Black Box is a leading technology product solutions provider that helps customers build, manage, optimize, and secure their networks. The Black Box quality management system is ISO 9001:2008 certified, and the company has received numerous industry recognitions. Black Box provides its customers with free, 24/7 pre- and post-sales technical support. The Black Box catalog and Web site offer an extensive range of infrastructure products including Cabling, Cabinets & Racks, Data Center Cooling Solutions, Power & Surge Protection, and Environmental Monitoring.

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